

APPLICANT(S): BIRK, Yitzhak, et al.
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AMENDMENTS TO THE CLAIMS

Kindly amend the claims as follows:

1. (Currently Amended) A system for providing the output of a computer to a television set via wireless channel within a building, the system comprising:

a multi-polarization transmission antenna unit;

a transmission processor connected between said computer and said transmission antenna unit for converting said computer output to a composite video signal, for upconverting said composite video signal to a carrier frequency not within a range reserved for television transmissions and for providing said upconverted signal to said transmission antenna for transmission within said building;

a reception antenna unit, located away from said transmission antenna unit, having at least one set of two, differently polarized reception antennas for receiving said transmitted signal;

a reception processor connected between said reception antenna unit and said television set for processing and combining the output of said two ~~transmission~~ reception antennas of each said at least one set and for adapting said processing in accordance with the quality of said output.

2. (Original) A system according to claim 1 and wherein said reception processor includes means for measuring said quality during non-image periods and for adapting said processing when said quality is lower than a predetermined threshold.

3. (Cancelled)

4. (Original) A system according to claim 1 and wherein said reception antenna unit is a multi-polarization antenna.

5 - 6. (Cancelled)

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7. (Original) A system according to claim 1 and wherein said reception processor includes:

one adaptable antenna processing unit per set of reception antennas, wherein each said antenna processing unit includes a control unit for controlling at least one of the relative phase shift and relative attenuation between the outputs of said set of reception antennas and a combiner for combining the processed outputs of said set of reception antennas;

a downconverter for converting the output of at least one of said combiners to a television signal to be provided to said television set; and

a quality feedback unit for measuring the quality of said television signal and for selecting control values for said control unit accordingly.

8. (Currently Amended) A system according to claim 7 and wherein said one antenna processing unit per set of reception antennas ~~is comprises~~ two antenna processing units ~~subunits~~ subunits and ~~wherein said reception processor includes~~ a combiner for combining the output of said antenna processing ~~units~~ subunits.

9. (Currently Amended) A system according to claim 7 and wherein said one antenna processing unit per set of reception antennas ~~is comprises~~ two antenna processing units ~~subunits~~ subunits and ~~wherein said reception processor includes~~ a selector for selecting one the outputs of said antenna processing ~~units~~ subunits.

10. (Currently Amended) A system according to ~~claims claim 6 and 7~~ wherein said quality feedback unit also selects control values for said selector and also including a wireless control unit for transmitting said selector control values to said transmission processor.

11. (Currently Amended) A system according to ~~claims claim 5 and 7~~ wherein said quality feedback unit also selects control values for said controllable processor and also

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including a wireless control unit for transmitting said processor control values to said transmission processor.

12. (Original) A system according to claim 7 and wherein said quality feedback unit comprises input units for receiving quality definitions from a user.

13. (Currently Amended) A reception unit for a system which transmits the output of a computer to a television set via wireless channel within a building, the reception unit comprising:

a multi-polarization reception antenna unit having at least one set of two, differently polarized reception antennas for receiving ~~the~~ multi-polarized transmitted output of said computer;

a reception processor connected between said reception antenna unit and said television set for processing and combining the multi-polarized output of said two antennas of each said at least one set and for adapting said processing in accordance with the quality of said multi-polarized output.

14. (Original) A reception unit according to claim 13 and wherein said reception processor includes means for measuring said quality during non-image periods and for adapting said processing when said quality is below a predetermined threshold.

15. (Original) A reception unit according to claim 13 and wherein said reception processor includes:

one adaptable antenna processing unit per set of reception antennas, wherein each said antenna processing unit includes a control unit for controlling at least one of the relative phase shift and relative attenuation between the outputs of said set of reception antennas and a combiner for combining the processed outputs of said set of reception antennas;

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a downconverter for converting the output of at least one of said combiners to a television signal to be provided to said television set; and

a quality feedback unit for measuring the quality of said television signal and for selecting control values for said control unit accordingly.

16. (Currently Amended) A system according to claim 15 and wherein said one antenna processing unit per set of reception antennas ~~is~~ comprises two antenna processing ~~units~~ subunits and ~~wherein said reception processor includes~~ a combiner for combining the output of said antenna processing ~~units~~ subunits.

17. (Currently Amended) A system according to claim 15 and wherein said one antenna processing unit per set of reception antennas ~~is~~ comprises two antenna processing ~~units~~ subunits and ~~wherein said reception processor includes~~ a selector for selecting one the outputs of said antenna processing ~~units~~ subunits.

18. (Original) A system according to claim 15 and wherein said quality feedback unit comprises input units for receiving quality definitions from a user.

19 - 21. (Cancelled)